



UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/937,584	09/26/2001	F. Michael Shofner II	SEA-6-7-US	2420
31671	7590 07/16/2003			
STEVEN C. SCHNEDLER			EXAMINER	
56 CENTRAI	SCHNEDLER, PA L AVE., SUITE 101	DAWSON, GLENN K		
PO BOX 2985 ASHEVILLE, NC 28802			ART UNIT	PAPER NUMBER
	•		3761	
			DATE MAILED: 07/16/2003	\mathscr{O}

Please find below and/or attached an Office communication concerning this application or proceeding.

	· ·					
4	Application No.	Applicant(s)				
, .	09/937,584	SHOFNER II ET AL.				
Offic Action Summary	Examin r	Art Unit				
	Glenn K Dawson	3761				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with th	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) owill apply and will expire SIX (6) MONTHS from cause the application to become ABANDO	timely filed lays will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 26.5	September 2001 .					
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	Parks					
4) Claim(s) 1-14,23 and 28-33 is/are pending in 1						
4a) Of the above claim(s) is/are withdrawn from consideration.						
<u> </u>	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-14,23,28 and 30-33</u> is/are rejected.						
7) Claim(s) 29 is/are objected to.	r alastian requirement					
8) Claim(s) are subject to restriction and/o Application Papers	r election requirement.	·				
9)⊠ The specification is objected to by the Examine						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action. 12) ☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bu * See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).					
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 	5) 🔲 Notice of Inform	nary (PTO-413) Paper No(s) al Patent Application (PTO-152)				
S. Patent and Trademark Office	tion Summary	Part of Paner No. 6				



Art Unit: 3761

Claim Rej ctions - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-14 and 23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, there is no antecedent basis for "the known upstream volumetric flow rate" and "the known downstream volumetric flow rate".

In claim 14, "section)" is unclear, and there is no antecedent basis for "the aerosolized mass".

Specification

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: the specification does not disclose a "mixing changer" as claimed in claim 23. Clarification and correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

⁽e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States



Application/Control Number: 09/937,584

Art Unit: 3761

only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 28 is rejected under 35 U.S.C. 102(b) as being anticipated by Pischinger, et al.-4634459.

Pischinger discloses a device having a porous media collection element 5, a delivery tube 2, and a perforated support element 18.

Claim 28 is rejected under 35 U.S.C. 102(e) as being anticipated by Liu, et al.-6221136.

Liu discloses a device having a porous element 26, an aerosol delivery tube 116 and a perforated support element 114.

Claims 30 and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by Wellinghoff, et al.-4801411.

Wellinghoff discloses a device having an impactor plate 86, an impactor jet 40 capable of delivering the aerosol at supersonic velocities; and an output conduit 104.

Claims 32 and 33 are rejected under 35 U.S.C. 102(b) as being anticipated by Postma, et al.-4029482.

Postma discloses a device having a mass delivery section 12, a drift tube (tube connected between 12 and 11), and the deposition section 11,10,13,15,16,17,20,18 receiving the drift tube and having a gas source connected to inlet 11.

Application/Control Number: 09/937,584

Art Unit: 3761

Allowable Subject Matt r

Claim 29 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 1-14 and 23 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenn K Dawson whose telephone number is 703-308-4304. The examiner can normally be reached on M-Th 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on 703-308-1957. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3590 for regular communications and 703-306-4520 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0858.

Glenn K Dawson Primary Examiner Art Unit 3761

gkd July 12, 2003